

# PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

# PCT

To:

WONG, CABELLO, LUTSCH, RUTHERFORD &  
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20333 SH 249, Suite 600  
Houston, TX 77070  
UNITED STATES OF AMERICA

NOTIFICATION OF TRANSMITTAL OF  
THE INTERNATIONAL SEARCH REPORT AND  
THE WRITTEN OPINION OF THE INTERNATIONAL  
SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

Date of mailing  
(day/month/year)

08/03/2006

Applicant's or agent's file reference

119-0032WO

**RECEIVED  
WONG CABELLO**

**FOR FURTHER ACTION**

See paragraphs 1 and 4 below

International application No.

PCT/US2005/019108

MAR 13 2006

International filing date  
(day/month/year)

01/06/2005

Applicant

APPLE COMPUTER, INC.

DOCKETED BY  
ACTION  
DATE

*PCT written op. one month reminder 5/8/06  
written op. reply 6/8/06  
Art 19 amendments 5/3/06  
PCT Supp 175 in US 6/8/06*

1. ☒ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

**Filing of amendments and statement under Article 19:**

The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

**When?** The time limit for filing such amendments is normally two months from the date of transmittal of the International Search Report.

**Where?** Directly to the International Bureau of WIPO, 34 chemin des Colombettes  
1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 338.82.70

**For more detailed instructions,** see the notes on the accompanying sheet.

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.
3. ☐ **With regard to the protest** against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
- ☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
- ☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

**4. Reminders**

Shortly after the expiration of **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within **19 months** from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until **30 months** from the priority date (in some Offices even later); otherwise, the applicant must, **within 20 months** from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of **30 months** (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the *PCT Applicant's Guide*, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the International Searching Authority



European Patent Office, P.B. 5818 Patentlaan 2  
NL-2280 HV Rijswijk  
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Authorized officer

Ka-Bo Müller

# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>119-0032WO</b>	<b>FOR FURTHER ACTION</b> see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. <b>PCT/US2005/019108</b>	International filing date (day/month/year) <b>01/06/2005</b>	(Earliest) Priority Date (day/month/year) <b>25/06/2004</b>
Applicant  <b>APPLE COMPUTER, INC.</b>		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

### 1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of:

- ☒ the international application in the language in which it was filed  
☐ a translation of the international application into \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box No. II)

3. ☐ **Unity of invention is lacking** (see Box No. III)

4. With regard to the **title**,

- ☒ the text is approved as submitted by the applicant  
☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

- ☒ the text is approved as submitted by the applicant  
☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. 2  
☐ as suggested by the applicant  
☐ as selected by this Authority, because the applicant failed to suggest a figure  
☒ as selected by this Authority, because this figure better characterizes the invention  
 b. ☐ none of the figures is to be published with the abstract

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US2005/019108

## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

## FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-18

The first invention concerns a method of generating a display-wide visual effect comprising the step of filtering an image buffer's contents using a graphics processing unit to generate a specified visual effect, wherein the image buffer is associated with a system frame buffer.

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2. claims: 19-35

The second concept concerns a method to generate a partial display update in a windowing system having a plurality of display layers, comprising  
identifying an output region associated with a top-most display layer, the output region having an associated output size and location,  
determining an input region for a filter associated with a display layer, said input region having an associated size and location,  
establishing a buffer having a size and location to accomodate the union of the output region's location and the input region's location, and  
compositing that portion of each display layer that overlaps the buffer's location into the established buffer.

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## INTERNATIONAL SEARCH REPORT

International application No

PCT/US2005/019108

A. CLASSIFICATION OF SUBJECT MATTER  
G09G5/393 G09G5/14

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
G09G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 877 741 A (CHEE ET AL) 2 March 1999 (1999-03-02) the whole document	1-18
X	US 2002/067418 A1 (I HIROAKI) 6 June 2002 (2002-06-06) the whole document	1-18
X	US 5 877 762 A (YOUNG ET AL) 2 March 1999 (1999-03-02)	28-35
A	column 2, lines 12-22; figures 2A, 2B, 3, 8, 9A-9K, 10 column 5, line 8 - column 6, line 13 column 7, line 43 - column 8, line 67	19-27
A	US 2002/093516 A1 (BRUNNER RALPH T ET AL) 18 July 2002 (2002-07-18) paragraphs '0028! - '0112!; figures 1-9	19-35



Further documents are listed in the continuation of Box C.



See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

16 February 2006

Date of mailing of the international search report

08. 03. 2006

Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Harke, M.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2005/019108

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5877741	A	02-03-1999	DE 69609974 D1	28-09-2000
			DE 69609974 T2	21-12-2000
			EP 0834111 A1	08-04-1998
			JP 3728754 B2	21-12-2005
			JP 2001515613 T	18-09-2001
			WO 9641255 A1	19-12-1996
			US 5694141 A	02-12-1997
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US 2002067418	A1	06-06-2002	DE 10159357 A1	27-06-2002
			JP 3548521 B2	28-07-2004
			JP 2002175069 A	21-06-2002
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US 5877762	A	02-03-1999	NONE	
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US 2002093516	A1	18-07-2002	DE 60008520 D1	01-04-2004
			DE 60008520 T2	16-12-2004
			EP 1177527 A1	06-02-2002
			JP 2002544544 T	24-12-2002
			WO 0068887 A1	16-11-2000
			US 6369830 B1	09-04-2002